January 23, 2001 NAE19980701US IB/Ar/vo/hu

## Purification of ammonia by distillation

## Abstract

Crude ammonia is separated into a low boiler fraction, a high boiler fraction and an intermediate-boiling pure fraction by continuous fractional distillation in a distillation apparatus configured either as a dividing wall column or as a system of thermally coupled distillation columns. In the process of the present invention, the low boiler fraction is taken off at the top of the distillation apparatus. The intermediateboiling pure fraction is obtained at a side offtake which is preferably provided with droplet precipitators. In addition, the gas loading the distillation column is restricted so that the operating pressure is in the range from 2 to 30 bar and the F factor does not exceed 2.0 Pa<sup>0.5</sup>.

(Fig. 1)